

containing components that comprise one or more labile organic groups. The labile organic groups include the dioxan, furan, and fulvene derivative chemicals described for the silicon containing reactive compounds and other oxygen containing organic groups. The labile organic groups are preferably the silicon containing and non-silicon containing components incorporated in the same molecule, but with the methylsilyl or methylsiloxanyl groups replaced with vinyl groups, or with the methylsiloxanyl groups replaced with ester groups, or with the methylsiloxanyl groups replaced with other non-silicon containing organic groups, in addition to those chemicals without the methylsiloxanyl groups, such as 1,4-dioxin and furan. Preferred non-silicon containing multiply unsaturated cycloalkanes (having two or more carbon-carbon double bonds) include:

vinyl-1,4-dioxinyl ether	$\text{CH}_2=\text{CH}-\text{O}-(\text{C}_4\text{H}_3\text{O}_2)$, cyclic
vinyl furyl ether	$\text{CH}_2=\text{CH}-\text{O}-(\text{C}_4\text{H}_3\text{O})$, cyclic
vinyl-1,4-dioxin	$\text{CH}_2=\text{CH}-(\text{C}_4\text{H}_3\text{O}_2)$, cyclic
vinyl furan	$\text{CH}_2=\text{CH}-\text{O}-(\text{C}_4\text{H}_3\text{O})$, cyclic
methyl furoate	$\text{CH}_3\text{C}(\text{O})-\text{O}-(\text{C}_4\text{H}_3\text{O})$, cyclic
furyl formate	$(\text{C}_4\text{H}_3\text{O})-\text{COOH}$, cyclic
furyl acetate	$(\text{C}_4\text{H}_3\text{O})-\text{CH}_2\text{COOH}$, cyclic
furaldehyde	$\text{CH}(\text{O})-(\text{C}_4\text{H}_3\text{O})$, cyclic
difuryl ketone	$(\text{C}_4\text{H}_3\text{O})_2\text{C}(\text{O})$, cyclic
difuryl ether	$(\text{C}_4\text{H}_3\text{O})-\text{O}-(\text{C}_4\text{H}_3\text{O})$, cyclic
difurfuryl ether	$(\text{C}_4\text{H}_3\text{O})-\text{CH}_2-\text{O}-\text{CH}_2-(\text{C}_4\text{H}_3\text{O})$, cyclic
tertiarybutylfurfuryl ether	$(\text{CH}_3)_3\text{C}-\text{O}-\text{CH}_2-(\text{C}_4\text{H}_3\text{O})$, cyclic
neopentylfurfuryl ether	$(\text{CH}_3)_3\text{CH}_2-\text{C}-\text{O}-\text{CH}_2-(\text{C}_4\text{H}_3\text{O})$, cyclic
furan,	$\text{C}_4\text{H}_4\text{O}$, (cyclic)
1,4-dioxin,	$\text{C}_4\text{H}_4\text{O}_2$, (cyclic)

and fluorinated carbon derivatives thereof.